Junction sequences of ChimeriVaxTM-JE (YF/JE) virus

Signalase

YAGA **MTGG** MTGG MKL MKL **VTL**

AK AF

YF/JE

TNVGA

DQGCA

Signalase

LGVGA | TNVHA | DQGCA DTGCA

KRR

SHDV

KRR

SHDV

NKR

CONT

YF/JE

*: This cleavage is

signalase-mediated processing at the C/prM junction prerequisite for efficient

NS2B-3 protease*

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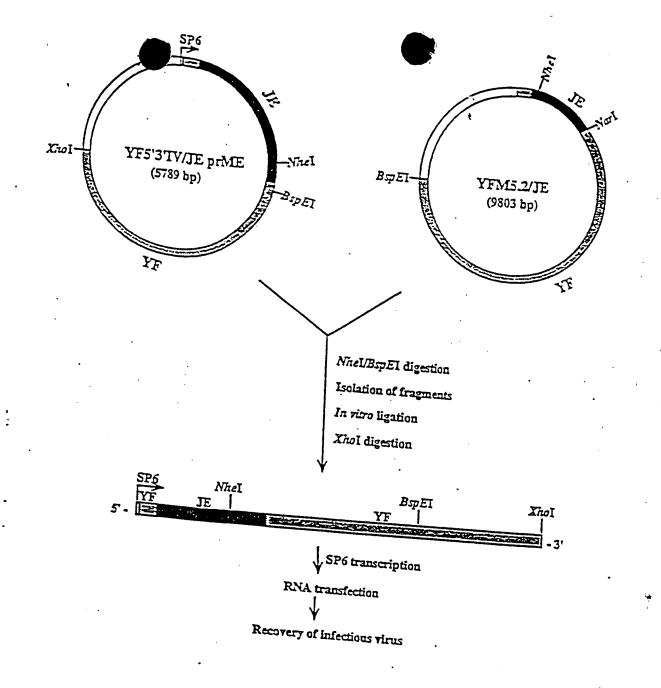


Fig. 2

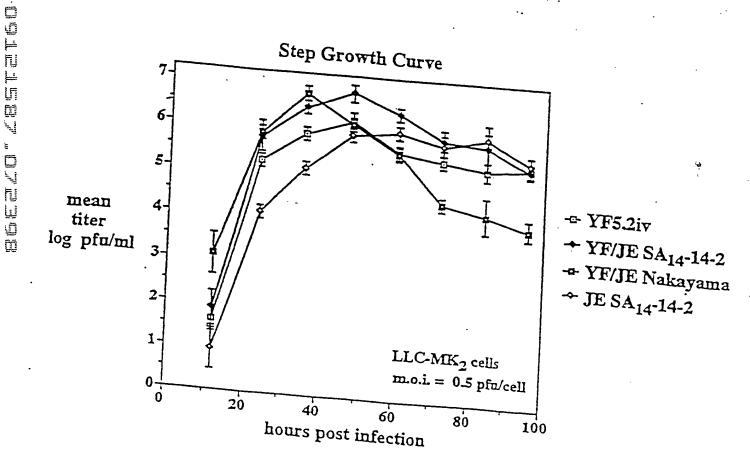


Fig 3

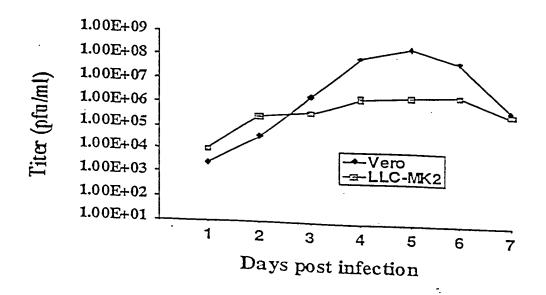
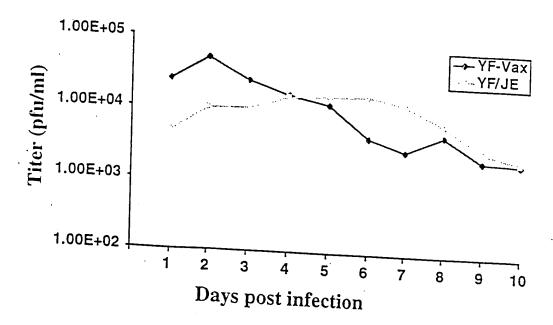


Fig. 4. Growth curves of RMS (YF/JE SAI4142) in Vero and LLC-MK2 cells.



Growth comparison between RMS and YF-Vax in MRC-5 cells.

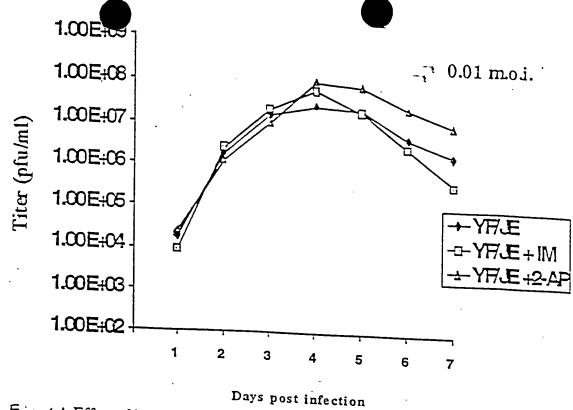


Fig. 6A, Effect of indomethacin (IM) or 2-aminopurine (2-AP) on growth kinetics of YF/JE (0.01 MOI) in FRhL cells

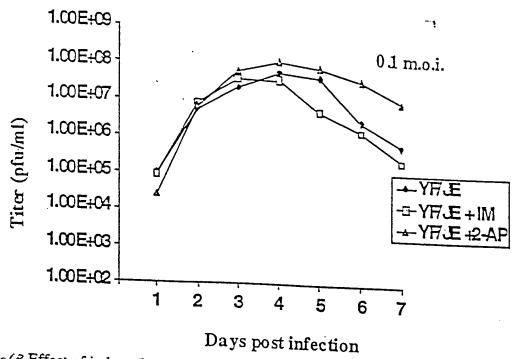


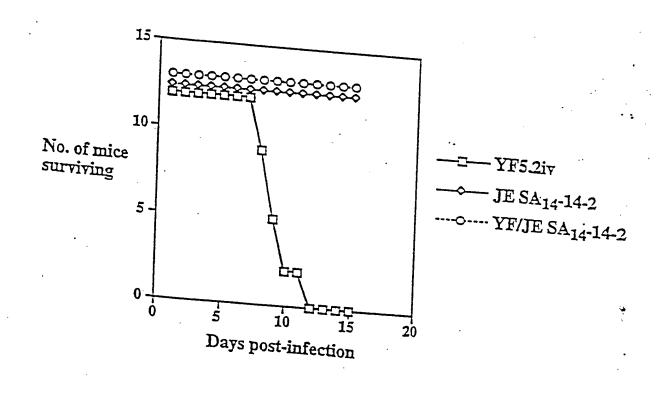
Fig.68 Effect of indomethacin or 2-aminopurine on growth kinetics of YF/JE_{SAI4-14-2} (0.1 MOI in FRhL cells.

Mouse neurovirulence analysis

MICE:

4 week old ICR males/females

VIRUS DOSE: 10⁴ pfu intracerebrally



| Virus | | |
|--|---|--------|
| YF5.2iv JE SA ₁₄ -14-2 YF/JE SA ₁₄ -14-2 | Survival | P |
| | 0/12 (0%) 12/12 (100%) 13/13 (100%) | - |
| | | <0.001 |
| | | <0.001 |

Fig. 7

(3-week old mice immunized, samples for testing taken at 6 weeks) to YF/JE SA14-14-2 chimeric vaccine Neutralizing antibody response

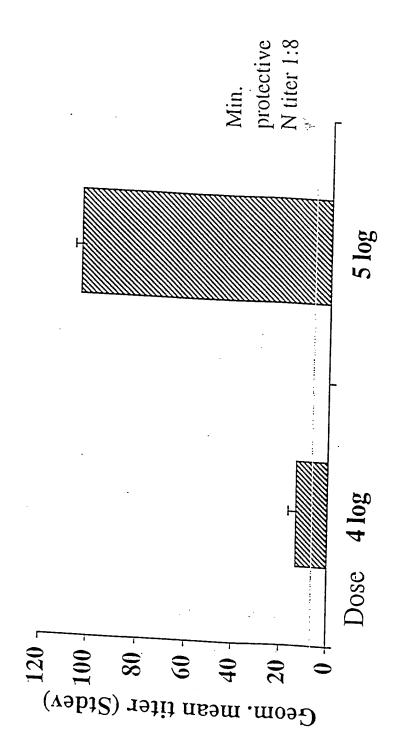


Fig.

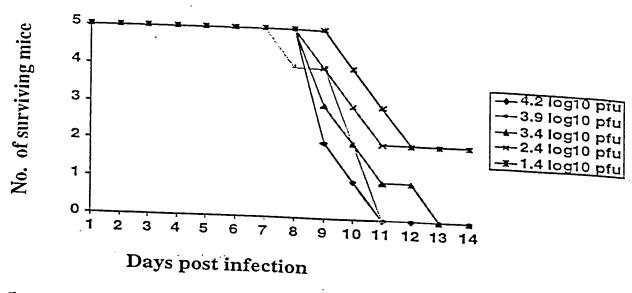


Fig. 9A. Neurovirulence testing of YF-Vax in 4-week old ICR mice by the i.c. route

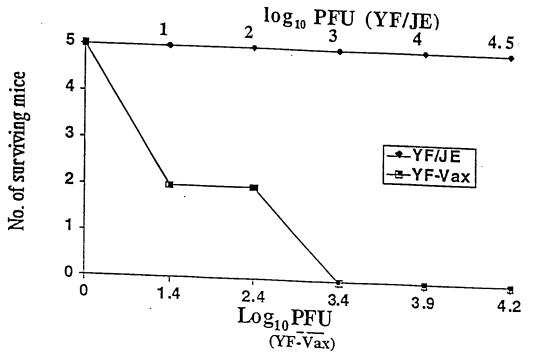


Fig.9B, Neurovirulence testing of YF/JE_{SA14-14-2} in 4-week old ICR mice by I.C. route

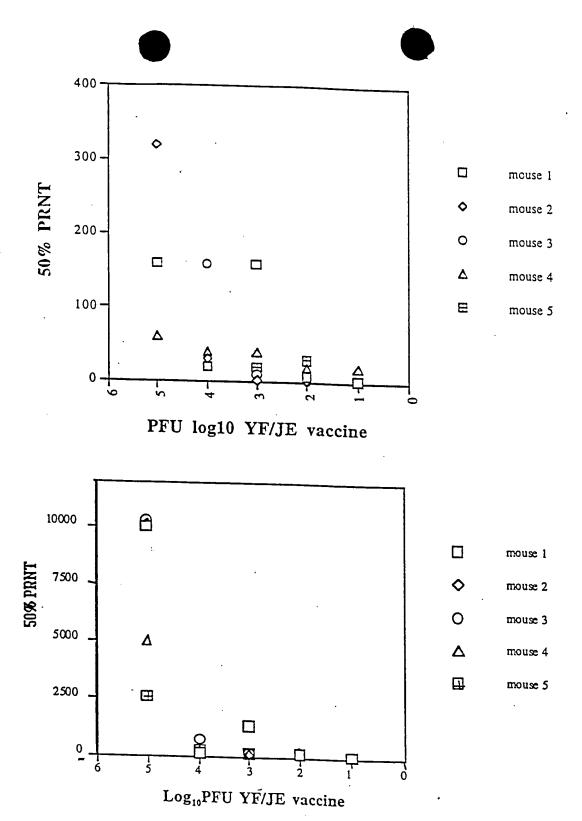
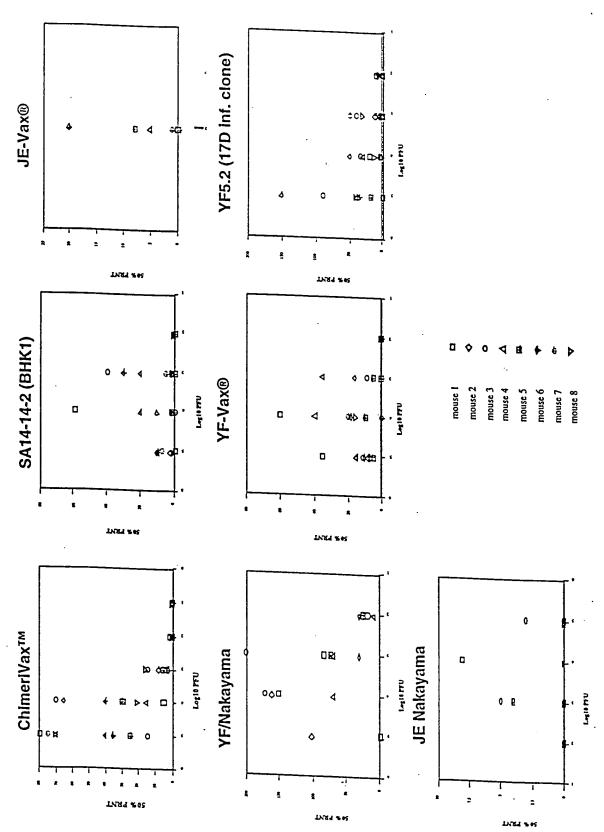


Fig. 10 Neutralizing antibody titers in mice inoculated s.c. with graded doses of YF/JE vaccine. TOP: 3 weeks post immunization and BOTTOM: 8 weeks post immunization



 $\mathcal{P}_{(g)}$, (. SEROLOGICAL RESPONSES OF MICE IMMUNIZED WITH A SINGLE DOSE OF LIVE VIRUSES

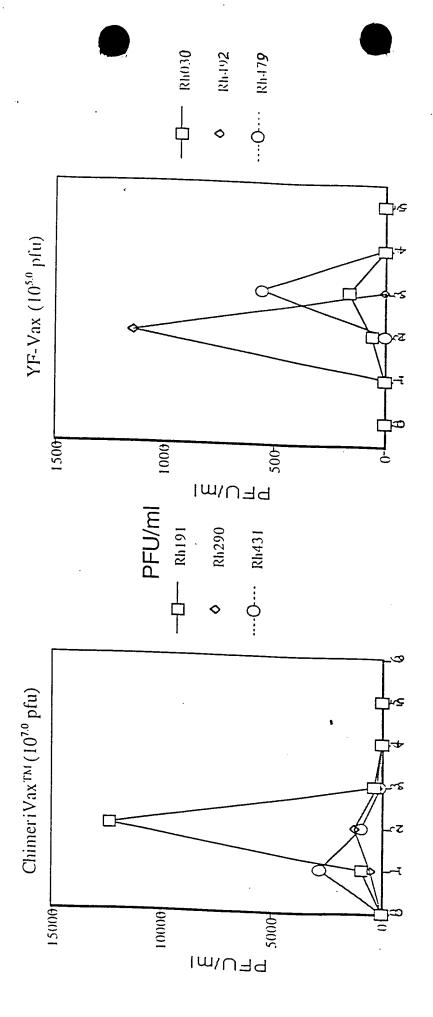


Fig. 2. Viremia and GMT of viremia in 3 rhesus monkeys inoculated with ChimeriVax TM or YF-Vax (a) by the I.C. route.

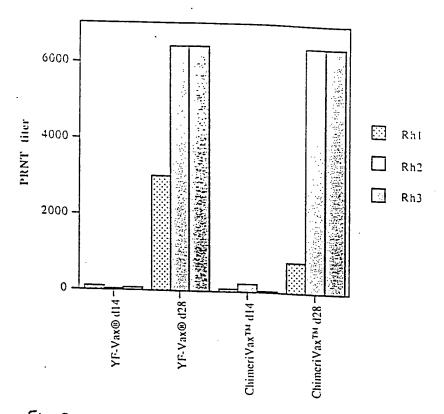


Fig. B Neutralizing antibody titers (50%) in rhesus monkeys 2 and 4 weeks post inoculations with a single dose of vaccines by the I.C. route.

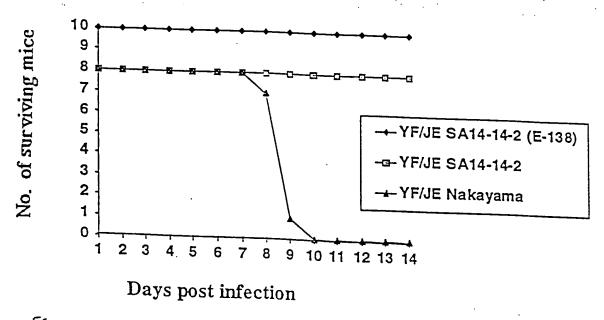


Fig.14 Mouse neurovirulence testing of YF/JE SA14-14-2 (E-138 K-->E) mutant.

Fig. 15

Structure of modified YF clones expressing E/NS1 intergenic open reading frames

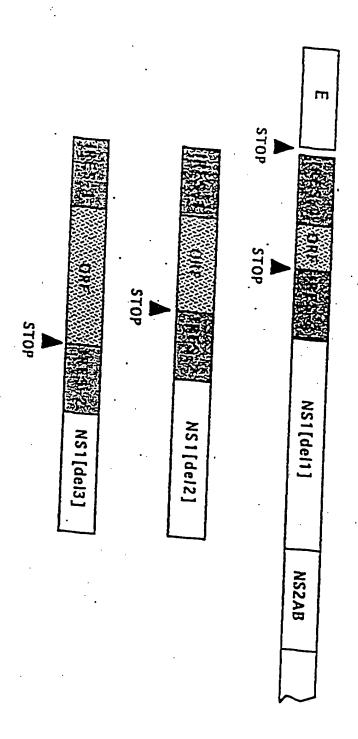


Fig. 6

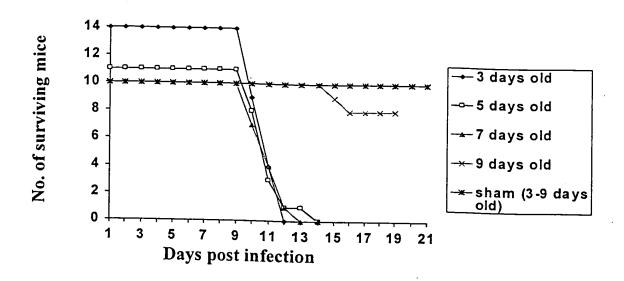


Figure 17. Neurovirulence phenotype of ChimeriVaxTM-Den2 in outbred (CD-1) suckling mice inoculated by the I.C. route with 10,000 PFU/0.02 ml.

ب

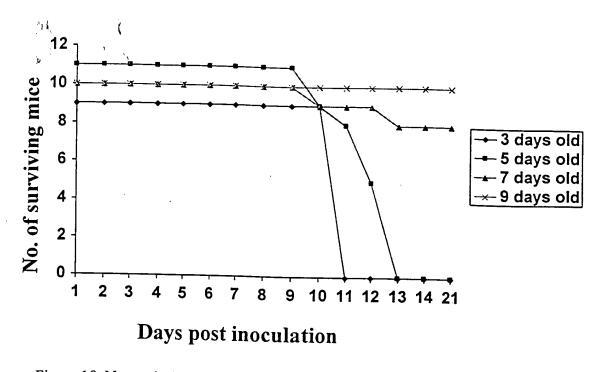


Figure 18. Neurovirulence phenotype of 17D vaccine (YF-Vax®) in outbred (CD-1) suckling mice inoculated by the I.P. route with 1000 PFU/0.02 ml.